#### PATENT COOPERATION T

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# **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
W1260-00	FOR FURTHER ACTION	See Form	PCT/IPEA/416			
International application No.	International filing date (day/		date (day/month/year)			
PCT/JP2003/014741	19 November 2003 (19	11.2003) 27 No	ovember 2002 (27.11.2002)			
International Patent Classification (IPC) or no H05K 3/46	ational classification and IPC					
A1:						
Applicant SUMITOMO BAKELITE COMPANY LIMITED						
1. This report is the international prelim	inom: out					
Authority under Article 35 and transi	<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a total of	sheets, including	g this cover sheet				
3. This report is also accompanied by A	NNEXES, comprising:	,				
a. (sent to the applicant and t	o the International Bureau) a to	tal of sheets	, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers						
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the Internationa	d Bureau only) a total of	findicate type and no	umber of electronic corrier(s)			
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the report						
Box No. II Priority						
Box No. III Non-establishme	ent of opinion with regard to no	elty, inventive step and	industrial applicability			
Box No. III  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  Box No. IV  Lack of unity of invention						
Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		ompletion of this report				
31 March 2004 (31.03.2004)		•	4 (04.08.2004)			
Name and mailing address of the IPEA/JP		d officer				
Facsimile No.		Telephone No.				

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

nternational application No.

PCT/JP2003/014741

Box I	10. I	Basis of the report	
1. Wi	th regar	d to the language, this report is based on the international application in the language indicated under this item.	in which is St. J
oth	-		
_	whic	s report is based on translations from the original language into the following lang ch is language of a translation furnished for the purpose of:	uage,
1	닏	international search (under Rules 12.3 and 23.1(b))	
i		publication of the international application (under Rule 12.4)	
ľ	Ш	international preliminary examination (under Rules 55.2 and/or 55.3)	
2. Wit furn	are not	d to the <b>elements</b> of the international application, this report is based on <i>(replace the receiving Office in response to an invitation under Article 14 are referred to in annexed to this report):</i>	cement sheets which have been this report as "originally filed"
	The in	nternational application as originally filed/furnished	
	the de	escription:	
	pages		, as originally filed/furnished
İ	pages pages	received by this Authority on	
		received by this Authority on	
	the cla	aims:	
	pages		, as originally filed/furnished
[	pages*	, as amended (together w	ith any statement) under Article 19
ĺ	pages*	received by this Authority on	
		received by this Authority on	
		awings:	
	pages		, as originally filed/furnished
	pages*	received by this Authority on	
		received by this Authority on	
	a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence I	Listing.
3.	The am	nendments have resulted in the cancellation of:	
		he description, pages	
		he claims, Nos.	
	H.,	he drawings, sheets/figs	
	H "	he sequence listing (specify):	
	L_] "	ny table(s) related to sequence listing (specify):	
4. 🔲 :	(Rule 70	e description, pages	l listed below had not been in the Supplemental Box
	T th	e claims, Nose drawings, sheets/figs	
	T th	e sequence listing (specifil)	İ
	an	e sequence listing (specify):	
•		y table(s) related to sequence listing (specify):	
If item	4 applie	es, some or all of those sheets may be marked "superseded."	
D.C.	C(ID)Tr + +		

PCT/JP03/14741

Box N	Reasoned statement under Autich association
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
ı	citations and explanations supporting such statement

Novelty (N)	Claims	4, 10-22	YES
•	Claims	1-3, 5-9	NO
Inventive step (IS)	Claims	17-22	YES
	Claims	1-16	NO
Industrial applicability (IA)	Claims	1-22	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 2002-329966, A (Sumitomo Bakelite Co., Ltd.), 15 November, 2002(15.11.02) Document 2: JP, 11-54934, A (Ibiden Co., Ltd.), 26 February, 1999 (26.02.99)

Document 3: JP, 7-135375, A (Mitsui Toatsu Chemicals, Inc.), 23 May, 1995 (23.05.95)

The subject matters of claims 1, 2, 5 and 8 do not appear to be novel in view of document 1 cited in the ISR. A circuit board having conductive two-layer posts and protruding terminals covered by a metal coating layer as described in claims 1, 2, 5 and 8 is disclosed in document 1.

The subject matters of claims 3, 6, 7 and 9 do not appear to be novel in view of document 1 cited in the ISR. A circuit board provided with conductive two-layer posts and an adhesive layer having a flux function as stated in claims 3, 6, 7 and 9 is disclosed in document 1.

The subject matter of claim 4 does not appear to involve an inventive step in view of document 1 cited in ISR. It is considered to be obvious for a person skilled in the art to apply a commonly used method of providing surface coating to conductive circuits, a part of which is left uncoated, in the invention of document 1.

The subject matters of claims 10 to 14 do not appear to involve an inventive step in view of documents 1 and 2 cited in the ISR. It is considered to be obvious for a person skilled in the art to apply the lamination means for multi-layer wiring board mentioned in document 2, in the invention of document 1.

The subject matters of claims 15 and 16 do not appear to involve an inventive step in view of documents 1 and 3 cited in the ISR. It is considered to be obvious for a person skilled in the art to apply the method of giving flexibility by means of a single-layer part as stated in document 3 in the invention of document 1.

The subject matters of claims 17-22 appear to involve an inventive step in view of documents 1-3 cited in the ISR. No detailed description of a flexible rigid substrate is found in documents 1-3 and this feature does not appear to be obvious to a person skilled in the art.